



# TSR101-EB SPECIFICATIONS\*

\*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SPECIFIC WARRANTY REMEDY LIMITATIONS APPLY. CALL 1-603-456-2011 OR GO TO WWW.MADGETECH.COM FOR DETAILS.

<b>Channels:</b>	Shock (3 axes)			
<b>Accelerometer Type:</b>	MEMS Semiconductor			
<b>Acceleration Range (g):</b>	±5	±50	±100	±250
<b>Calibrated Accuracy (g):</b>	±0.2	±1	±2	±4
<b>Acceleration Resolution (g):</b>	0.01	0.05	0.1	0.2
<b>Absolute Max. Acceleration:</b>	250 g (all versions)			
<b>Reading Rate Range:</b>	15 options from 0.976ms/1,024Hz to 1 second, selectable in software			
<b>Trigger Specifics:</b>	User settable trigger levels on X, Y, and/or Z axes, and specifies # of samples after triggers			
<b>Pre-Trigger Specifics:</b>	Records a pre-trigger of up to 50 readings prior to the trigger point			
<b>Frequency Response:</b>	0Hz to approx. 400Hz (50, 100 g) (0-512Hz (5 g))			
<b>Real Time Recording:</b>	May be used with PC to monitor and record instantaneous acceleration in real time (Only at 1 second rate, not possible during logging)			
<b>Start Modes:</b>	Software programmable immediate start or delay start up to 180 days in advance			
<b>Password Protection:</b>	An optional password may be programmed into the device to restrict access to configuration options. Data may be read out without the password			

<b>Calibration:</b>	Digital calibration is available to the user through software
<b>Calibration Date:</b>	Automatically recorded within device
<b>Battery Type:</b>	6 D-cell alkaline batteries included; <b>user replaceable</b>
<b>Battery Life:</b>	30 days typical with alkaline batteries, immediate start, 1024Hz
<b>Data Format:</b>	Date and time stamped gravities (g and mg)
<b>Time Accuracy:</b>	±1 minute/month (at 20 °C to 30 °C)
<b>Computer Interface:</b>	USB (interface cable required), 115,200 baud
<b>Software:</b>	XP SP3/Vista/Windows 7/Windows 8
<b>Operating Environment:</b>	-20 °C to +54 °C, 0 to 95%RH non-condensing
<b>Dimensions:</b>	5.5" x 5.4" x 3.2" (140 mm x 137 mm x 80 mm)
<b>Weight:</b>	5 lbs (2.3 kg)
<b>Materials:</b>	Anodized aluminum
<b>Approvals:</b>	CE

**BATTERY WARNING:** DISCARD USED BATTERY PROMPTLY. KEEP OUT OF REACH OF CHILDREN. DO NOT DISPOSE OF IN FIRE, RECHARGE, PUT IN BACKWARDS, DISASSEMBLE, OR MIX WITH OTHER BATTERY TYPES. MAY EXPLODE, FLAME, OR LEAK AND CAUSE PERSONAL INJURY.

## ORDERING INFORMATION

MODEL	DESCRIPTION
TSR101-EB-5	±5g Tri-Axial Shock Recorder with Extended Battery Life
TSR101-EB-50	±50g Tri-Axial Shock Recorder with Extended Battery Life
TSR101-EB-100	±100g Tri-Axial Shock Recorder with Extended Battery Life
TSR101-EB-250	±250g Tri-Axial Shock Recorder with Extended Battery Life
IFC200	Software, manual and USB interface cable
MN1300	Replacement battery for TSR101-EB (6 Required)

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- Current
- Voltage
- Wireless
- Intrinsically Safe
- Spectral Vibration
- Motion

For Quantity Discounts call 603-456-2011 or email [sales@madgetech.com](mailto:sales@madgetech.com)